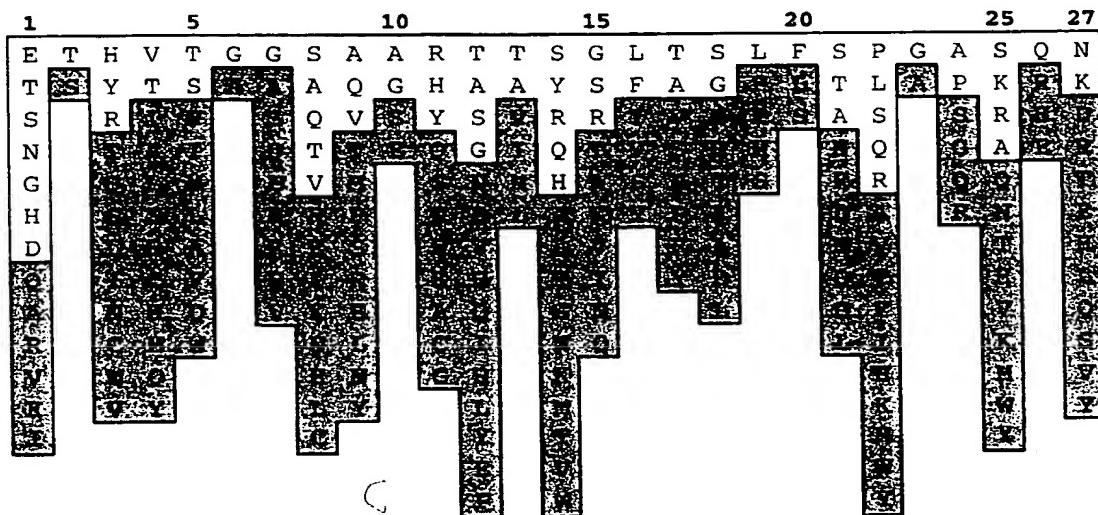


A



B

1	5	10	15	20	25	27																				
Q	T	H	V	T	G	G	S	A	A	R	T	T	S	G	L	T	S	L	F	S	P	G	A	S	Q	N
T	T	T	V		V	Q	G	H	A	A	H	S		V	G		R	L	P	K						K
R					Q	V	S		Q	V	R	R		R		S		S	Q							

Fig. 1

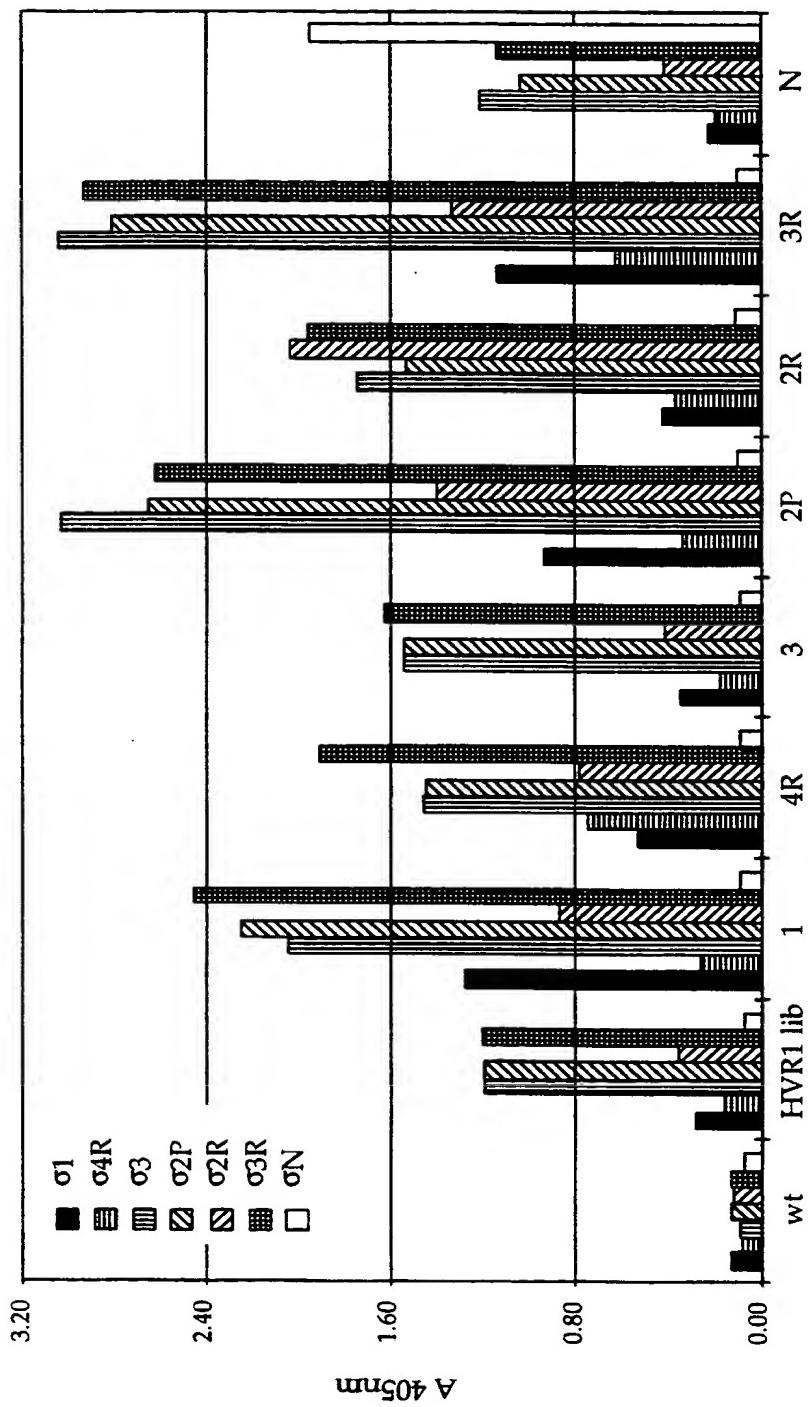


Fig. 2

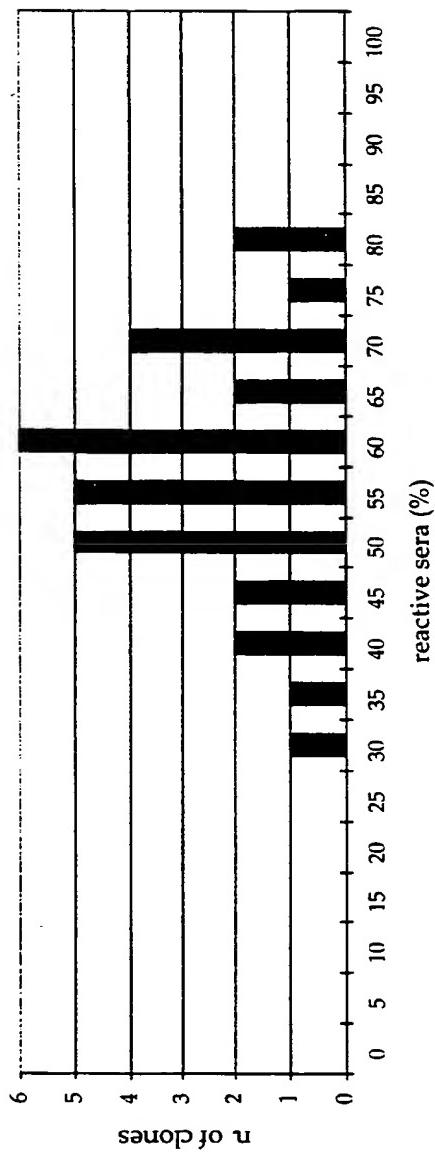
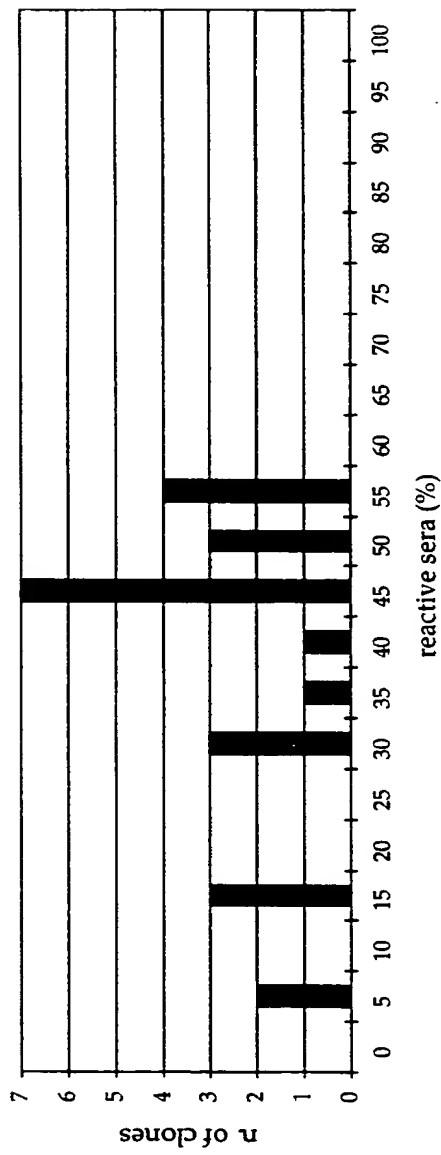


Fig. 3

A

	R9	H1	M63	M122
C7	0.14	0.13	0.00	0.22
C8	1.67	1.83	1.05	0.38
C9	2.30	0.65	0.21	0.11
C10	1.23	1.30	0.71	0.64
C12	0.16	1.26	0.20	1.09
C13	0.90	2.06	0.57	0.19
C14	0.47	0.63	1.09	2.27
C17	1.48	1.35	1.00	0.00
C23	0.00	0.88	2.65	0.00
C27	0.00	0.00	0.00	3.17
C28	2.98	0.15	0.00	1.98
C29	0.00	0.00	2.85	1.17
C30	0.18	0.00	2.85	1.17
C40	3.17	1.84	0.20	2.96
C48	3.07	2.58	0.00	2.56
C49	0.12	0.00	0.00	0.00
C50	0.00	0.00	0.12	0.00
C56	0.33	0.12	0.00	0.00
C58	2.85	1.42	0.38	0.35
C62	0.00	0.00	0.13	0.00

frequency 75% 70% 70% 70%

total:
100%

B

	R9	H1	M63	M122
1V	0.49	2.51	0.00	0.20
2V	0.00	0.19	0.11	0.00
3V	0.65	1.90	1.73	0.62
4V	0.25	0.00	0.00	0.29
5V	1.75	2.47	0.51	0.00
7V	0.60	1.09	1.16	0.88
8V	0.50	0.88	0.00	0.00
9V	0.00	0.59	0.00	0.00
10V	0.58	0.11	1.98	0.00
1P	0.00	0.00	0.00	0.33
5P	0.24	0.28	0.44	0.00
6P	0.47	1.54	0.27	0.31
7P	0.78	1.33	1.00	0.00
8P	0.68	0.57	0.14	0.38
10P	1.20	1.12	0.81	0.88
11P	0.32	0.44	0.00	0.22
12P	1.50	1.08	0.84	0.90
13P	0.49	0.00	0.00	0.31

frequency 83% 83% 61% 61%

total:
100%

C

	R9	H1	M63	M122
X1	0.00	0.00	0.00	0.00
X2	1.37	0.17	0.21	0.68
X3	0.15	0.56	0.58	0.00
X4	0.00	0.00	0.00	0.00
X5	0.00	0.14	0.00	0.00
X6	0.25	0.00	0.00	0.31
X7	0.66	0.83	0.60	0.34
X8	1.04	1.51	0.98	0.45
X9	0.96	0.21	0.00	0.00
X10	0.00	0.00	0.00	0.00
X11	0.74	0.53	0.11	0.91
X12	0.00	0.00	0.00	0.00
X13	2.30	0.18	0.54	0.00
X14	1.20	0.00	0.00	0.00
X15	2.38	0.00	0.00	1.60
X16	1.92	2.30	1.86	2.19
X17	0.00	0.00	0.00	0.00
X18	0.00	0.00	0.00	0.00
X19	0.00	0.00	0.00	0.00
X20	0.47	0.33	0.26	0.00
X21	0.00	0.86	1.45	1.96
X22	0.37	0.44	0.44	0.12
X23	0.61	0.60	0.10	0.00
X24	0.00	0.00	0.80	0.73
X25	0.00	0.00	0.00	0.47
X26	0.00	0.00	0.00	0.00
X27	0.00	0.00	0.00	0.00
1NV	0.00	1.50	0.22	0.00
2NV	0.00	0.40	0.23	0.00
3NV	0.10	0.11	0.00	0.00
4NV	0.00	0.00	0.00	0.00
5NV	0.00	0.00	0.00	0.00
6NV	0.00	0.00	0.00	0.00
11NV	0.10	0.00	0.00	0.53
12NV	0.00	0.00	0.41	0.00
13NV	0.00	0.00	0.00	0.00
15NV	0.12	0.00	0.00	0.19
16NV	0.52	0.84	0.56	0.60
17NV	0.64	0.52	0.41	1.14
3P	0.00	0.00	0.00	0.00
4P	0.00	0.00	0.00	0.00

total:
frequency 46% 44% 41% 37% 63%

Fig. 4

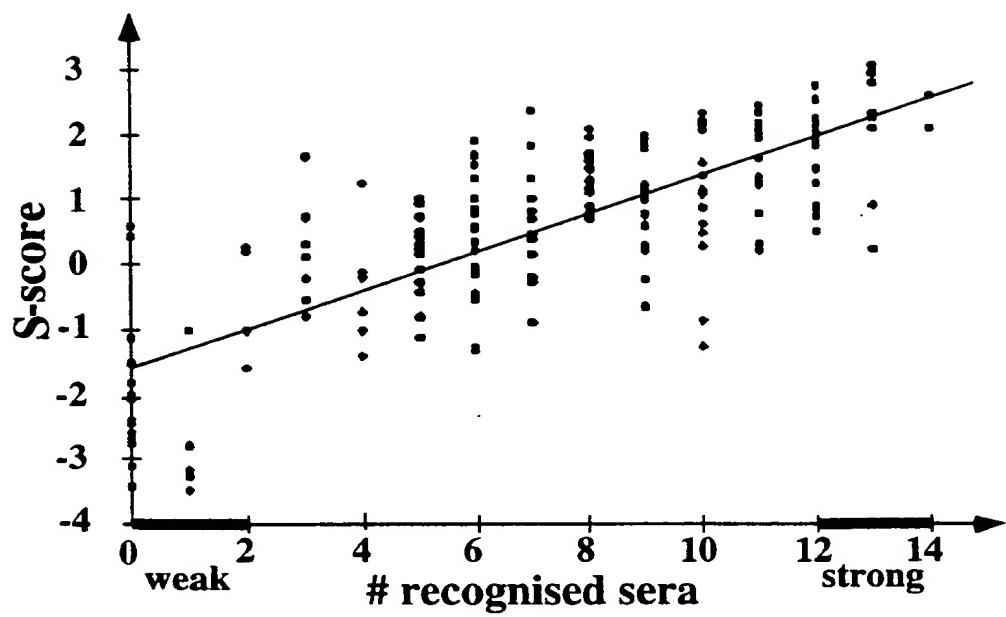


Fig. 5

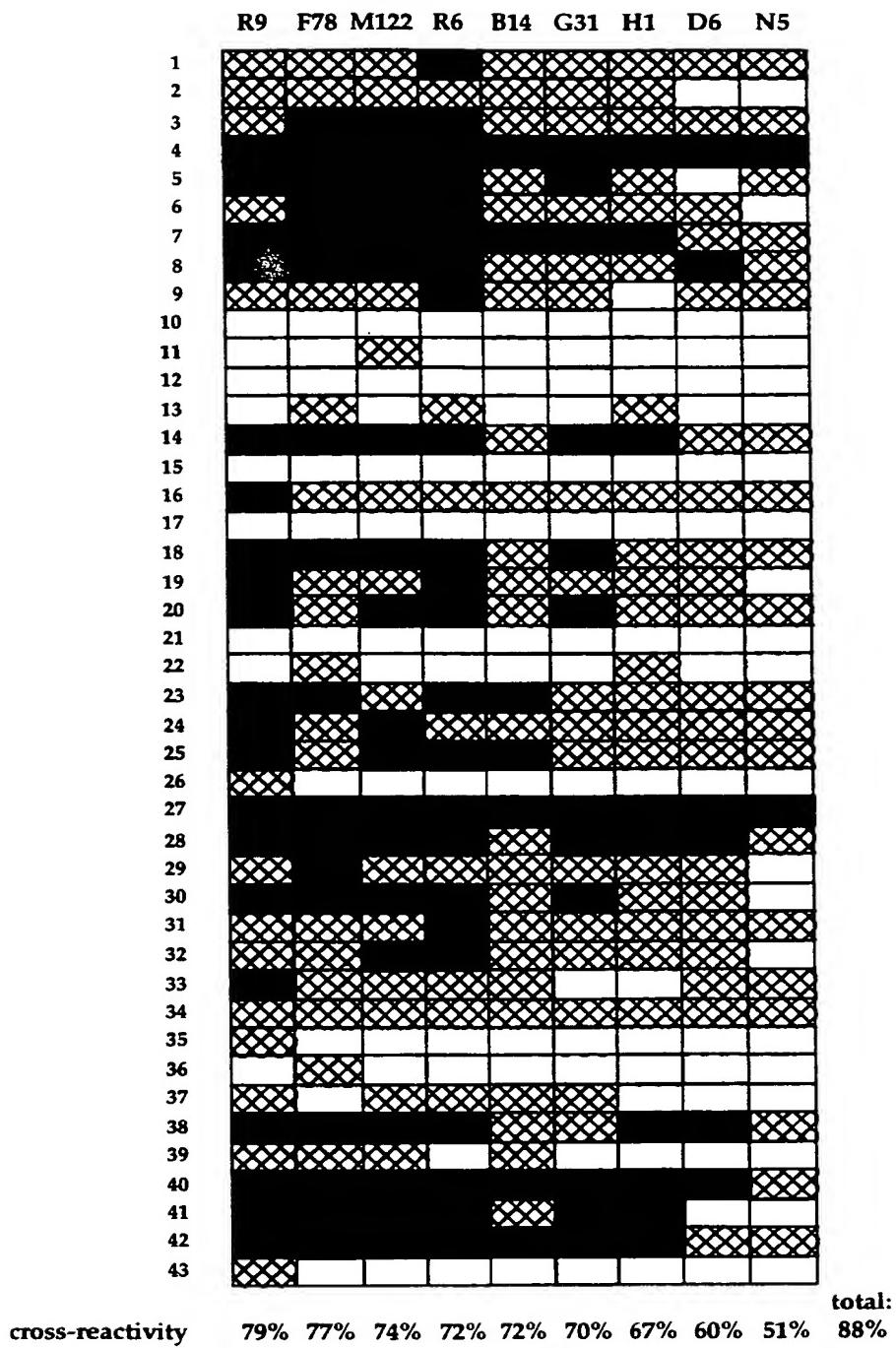


Fig. 6

A

mimotope	sequence
N5	TTTTTGGVQGHTRGLVRLFSLGSKQN
R6	TTTTTGGQVGHQTSGLTGLFSPGAQQN
D6	QTTCGGQVSHATHGLTGLFSLGPQQK
R9	QTTVVGGSQSHTVRGLTSLFSPGASQN
H1	QTHTTGTVGHATSGLTSLFSPGPSQK
G31	TTHTVGGSVARQVHSLTGLFSPGPQQK
M122	QTTCGGSASHAVSSLTGLFSPGSKQN
B14	QTTVTG-QASHTTSSLTGLFSPGASQK
F78	QTHTTGGQAGHQAHSLTGLFSPGAKQN

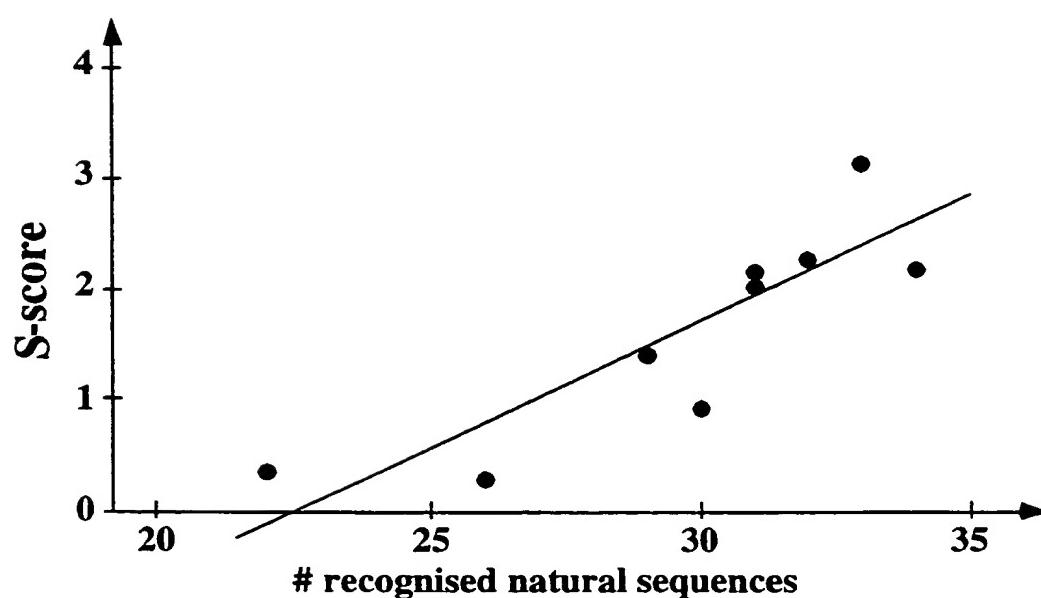
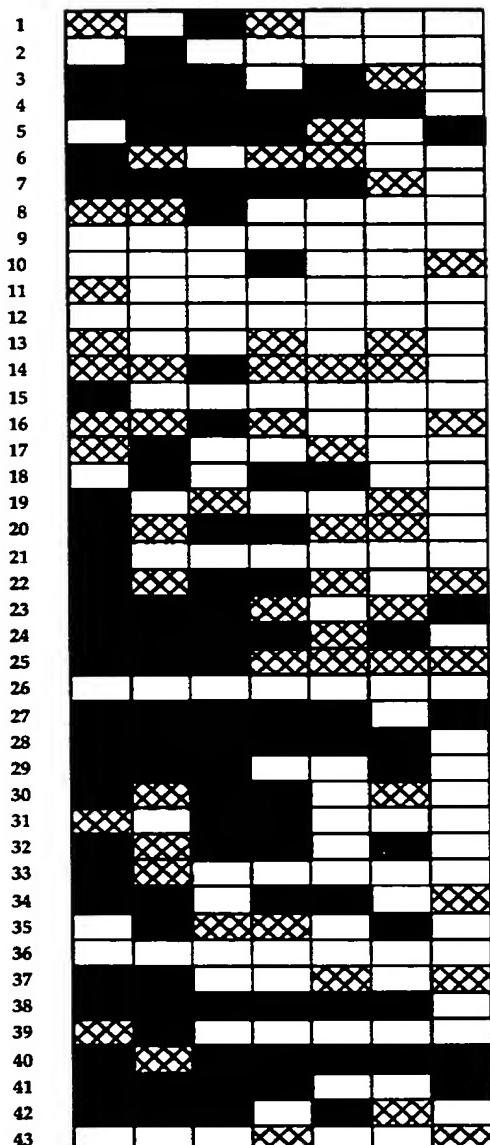
B

Fig. 7

A

mimotope G31 F78 R9 D6 M122 H1 N5

titre (x100) 330 1000 330 130 10 33 5



total:

cross-reactivity 77% 70% 60% 60% 44% 42% 28% 91%

B

MIX3 MIX1 MIX2

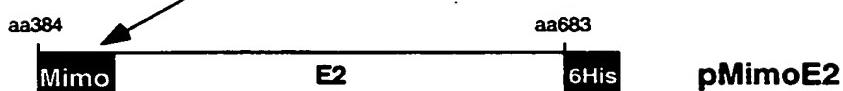
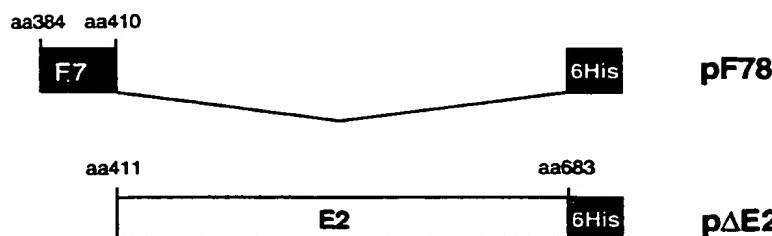
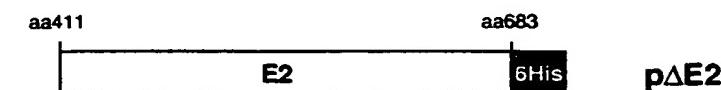
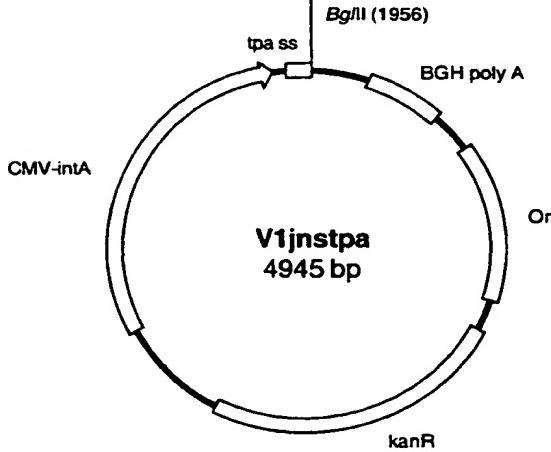
45 25 30



95% 84% 84%

Fig. 8

B14 QTTVT.GQASHTTSSLTGLFSPGASQK
 B24 TTTTVGGQASHTTSSLTGLFSPGASQK
 D6 QTTTTGGQVSEATHGLTGLFSLGPQQK
 E19 TTHT.TGGQQAHHTSRLVSLFSPGASQK
 F78 QTHTTGGQAGHQAHSLTGLFSPGAKQN
 G31 TTHTVGGSVARQVHSLTGLFSPGPQQK
 H1 QTHTTGGVVGHATSGLTSLFSPGPSQK
 M63 QTHTTGGVVSEQTRSLLVGLFSPGPQQN
 M122 QTHTTGGSASHAVSSLTGLFSPGSKQN
 R6 TTTTTGGQVGHQTSGLTGLFSPGAQQN
 R9 QTTVVGGSQSHTVRGLTSLFSPGASQN

**pMimoE2****pF78****pΔE2****Fig. 9**